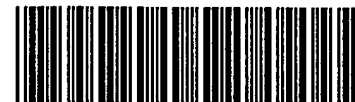


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/560,322
Source: 1FWP
Date Processed by STIC: 12/6/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 12/06/2006

PATENT APPLICATION: US/10/560,322

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

4 <110> APPLICANT: Baumgarten, Birgit
 5 Jones, Carol Elizabeth
 6 Ludwig, Marie-Gabrielle
 7 Martiny-Baron, Georg
 8 Seuwen, Klaus
 9 Wolf, Romain
 10 Wyder, Lorenza
 11 Suply, Thomas
 13 <120> TITLE OF INVENTION: PROTON-SENSING G-PROTEIN COUPLED
 14 RECEPTORS AND DNA SEQUENCES THEREOF
 17 <130> FILE REFERENCE: DC-4-33201A
 19 <140> CURRENT APPLICATION NUMBER: US 10/560,322
 C--> 20 <141> CURRENT FILING DATE: 2005-12-09
 22 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/006625
 23 <151> PRIOR FILING DATE: 2004-06-18
 25 <150> PRIOR APPLICATION NUMBER: 60/499,549
 26 <151> PRIOR FILING DATE: 2003-09-02
 28 <150> PRIOR APPLICATION NUMBER: 60.480,245
 29 <151> PRIOR FILING DATE: 2003-06-20
 31 <160> NUMBER OF SEQ ID NOS: 6
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 365
 37 <212> TYPE: PRT
 38 <213> ORGANISM: H. sapiens
 40 <400> SEQUENCE: 1
 41 Met Gly Asn Ile Thr Ala Asp Asn Ser Ser Met Ser Cys Thr Ile Asp
 42 1 5 10 15
 43 His Ile Thr His Gln Thr Leu Ala Pro Val Val Tyr Val Thr Val Leu
 44 20 25 30
 45 Val Val Gly Phe Pro Ala Asn Cys Leu Ser Leu Tyr Phe Gly Tyr Leu
 46 35 40 45
 47 Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr
 48 50 55 60
 49 Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr
 50 65 70 75 80
 51 Val Leu Gln His Asp Asn Trp Ser His Gly Asp Leu Ser Cys Gln Val
 52 85 90 95
 53 Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu
 54 100 105 110
 55 Cys Cys Ile Ser Val Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg
 56 115 120 125
 57 Phe His Gln Phe Arg Thr Leu Lys Ala Ala Val Gly Val Ser Val Val

RAW SEQUENCE LISTING

DATE: 12/06/2006

PATENT APPLICATION: US/10/560,322

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

```

58      130      135      140
59 Ile Trp Ala Lys Glu Leu Leu Thr Ser Ile Tyr Phe Leu Met His Glu
60 145      150      155      160
61 Glu Val Ile Glu Asp Glu Asn Gln His Arg Val Cys Phe Glu His Tyr
62      165      170      175
63 Pro Ile Gln Ala Trp Gln Arg Ala Ile Asn Tyr Tyr Arg Phe Leu Val
64      180      185      190
65 Gly Phe Leu Phe Pro Ile Cys Leu Leu Ala Ser Tyr Gln Gly Ile
66      195      200      205
67 Leu Arg Ala Val Arg Arg Ser His Gly Thr Gln Lys Ser Arg Lys Asp
68      210      215      220
69 Gln Ile Gln Arg Leu Val Leu Ser Thr Val Val Ile Phe Leu Ala Cys
70 225      230      235      240
71 Phe Leu Pro Tyr His Val Leu Leu Leu Val Arg Ser Val Trp Glu Ala
72      245      250      255
73 Ser Cys Asp Phe Ala Lys Gly Val Phe Asn Ala Tyr His Phe Ser Leu
74      260      265      270
75 Leu Leu Thr Ser Phe Asn Cys Val Ala Asp Pro Val Leu Tyr Cys Phe
76      275      280      285
77 Val Ser Glu Thr Thr His Arg Asp Leu Ala Arg Leu Arg Gly Ala Cys
78      290      295      300
79 Leu Ala Phe Leu Thr Cys Ser Arg Thr Gly Arg Ala Arg Glu Ala Tyr
80 305      310      315      320
81 Pro Leu Gly Ala Pro Glu Ala Ser Gly Lys Ser Gly Ala Gln Gly Glu
82      325      330      335
83 Glu Pro Glu Leu Thr Lys Leu His Pro Ala Phe Gln Thr Pro Asn
84      340      345      350
85 Ser Pro Gly Ser Gly Gly Phe Pro Thr Gly Arg Leu Ala
86      355      360      365
89 <210> SEQ ID NO: 2
90 <211> LENGTH: 16
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Peptide used for antibody production
97 <400> SEQUENCE: 2
98 Cys Phe Val Ser Glu Thr Thr His Arg Asp Leu Ala Arg Leu Arg Gly
99 1      5      10      15
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 362
104 <212> TYPE: PRT
105 <213> ORGANISM: H. sapiens
107 <400> SEQUENCE: 3
108 Met Gly Asn His Thr Trp Glu Gly Cys His Val Asp Ser Arg Val Asp
109 1      5      10      15
110 His Leu His Pro Pro Ser Leu Tyr Ile Phe Val Ile Gly Val Gly Leu
111      20      25      30
112 Pro Thr Asn Cys Leu Ala Leu Trp Ala Ala Tyr Arg Gln Val Gln Gln
113      35      40      45

```

RAW SEQUENCE LISTING

DATE: 12/06/2006

PATENT APPLICATION: US/10/560,322

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

```

114 Arg Asn Gln Leu Gly Val Tyr Leu Met Asn Leu Ser Ile Ala Asp Leu
115      50                      55                      60
116 Leu Tyr Ile Cys Thr Leu Pro Leu Trp Val Asp Tyr Phe Leu His His
117 65                      70                      75                      80
118 Asp Asn Trp Ile His Gly Pro Gly Ser Cys Lys Leu Pro Gly Phe Ile
119                      85                      90                      95
120 Phe Tyr Thr Asn Ile Tyr Ile Ser Ile Ala Phe Leu Cys Cys Ile Ser
121                      100                     105                     110
122 Val Asp Arg Tyr Leu Ala Val Ala His Pro Leu Arg Phe Ala Arg Leu
123                      115                     120                     125
124 Arg Arg Val Lys Thr Ala Val Ala Val Ser Ser Val Val Trp Ala Thr
125                      130                     135                     140
126 Glu Leu Gly Ala Asn Ser Ala Pro Leu Phe His Asp Glu Leu Phe Arg
127 145                      150                     155                     160
128 Asp Arg Tyr Asn His Thr Phe Cys Phe Glu Lys Phe Pro Met Glu Gly
129                      165                     170                     175
130 Trp Val Ala Trp Met Asn Leu Tyr Arg Val Phe Val Gly Phe Leu Phe
131                      180                     185                     190
132 Pro Trp Ala Leu Met Leu Leu Ser Tyr Arg Gly Ile Leu Arg Ala Val
133                      195                     200                     205
134 Arg Gly Ser Val Ser Thr Glu Arg Gln Glu Lys Ala Lys Ile Lys Arg
135                      210                     215                     220
136 Leu Ala Leu Ser Leu Ile Ala Ile Val Leu Val Cys Phe Ala Pro Tyr
137 225                      230                     235                     240
138 His Val Leu Leu Leu Ser Arg Ser Ala Ile Tyr Leu Gly Arg Pro Trp
139                      245                     250                     255
140 Asp Cys Gly Phe Glu Glu Arg Val Phe Ser Ala Tyr His Ser Ser Leu
141                      260                     265                     270
142 Ala Phe Thr Ser Leu Asn Cys Val Ala Asp Pro Ile Leu Tyr Cys Leu
143                      275                     280                     285
144 Val Asn Glu Gly Ala Arg Ser Asp Val Ala Lys Ala Leu His Asn Leu
145                      290                     295                     300
146 Leu Arg Phe Leu Ala Ser Asp Lys Pro Gln Glu Met Ala Asn Ala Ser
147 305                      310                     315                     320
148 Leu Thr Leu Glu Thr Pro Leu Thr Ser Lys Arg Asn Ser Thr Ala Lys
149                      325                     330                     335
150 Ala Met Thr Gly Ser Trp Ala Ala Thr Pro Pro Ser Glu Gly Asp Gln
151                      340                     345                     350
152 Val Gln Leu Lys Met Leu Pro Pro Ala Gln
153                      355                     360
156 <210> SEQ ID NO: 4
157 <211> LENGTH: 337
158 <212> TYPE: PRT
159 <213> ORGANISM: H. sapiens
161 <400> SEQUENCE: 4
162 Met Asn Ser Thr Cys Ile Glu Glu Gln His Asp Leu Asp His Tyr Leu
163 1      5      10      15
164 Phe Pro Ile Val Tyr Ile Phe Val Ile Ile Val Ser Ile Pro Ala Asn
165      20      25      30

```

RAW SEQUENCE LISTING

DATE: 12/06/2006

PATENT APPLICATION: US/10/560,322

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

```

166 Ile Gly Ser Leu Cys Val Ser Phe Leu Gln Pro Lys Lys Glu Ser Glu
167      35      40      45
168 Leu Gly Ile Tyr Leu Phe Ser Leu Ser Leu Ser Asp Leu Leu Tyr Ala
169      50      55      60
170 Leu Thr Leu Pro Leu Trp Ile Asp Tyr Thr Trp Asn Lys Asp Asn Thr
171 65      70      75      80
172 Thr Phe Ser Pro Ala Leu Cys Lys Gly Ser Ala Phe Leu Met Tyr Met
173      85      90      95
174 Leu Phe Tyr Ser Ser Thr Ala Phe Leu Thr Cys Ile Ala Val Asp Arg
175      100     105     110
176 Tyr Leu Ala Val Val Tyr Pro Leu Lys Phe Phe Phe Leu Arg Thr Arg
177      115     120     125
178 Arg Ile Ala Leu Met Val Ser Leu Ser Ile Trp Ile Leu Glu Thr Ile
179      130     135     140
180 Phe Asn Ala Val Met Leu Trp Glu Asp Glu Thr Val Val Glu Tyr Cys
181 145      150     155     160
182 Asp Ala Glu Lys Ser Asn Phe Thr Leu Cys Tyr Asp Lys Tyr Pro Leu
183      165     170     175
184 Glu Lys Trp Glu Ile Asn Leu Asn Leu Phe Arg Thr Cys Thr Gly Tyr
185      180     185     190
186 Ala Ile Pro Leu Val Thr Ile Leu Ile Cys Asn Arg Lys Val Tyr Gln
187      195     200     205
188 Ala Val Arg His Asn Lys Ala Thr Glu Asn Lys Glu Lys Lys Arg Ile
189      210     215     220
190 Ile Lys Leu Leu Val Ser Ile Thr Val Thr Phe Val Leu Cys Phe Thr
191 225      230     235     240
192 Pro Phe His Val Met Leu Leu Ile Arg Cys Ile Leu Glu His Ala Val
193      245     250     255
194 Asn Phe Glu Asp His Ser Asn Ser Gly Lys Arg Thr Tyr Thr Met Tyr
195      260     265     270
196 Arg Ile Thr Val Ala Leu Thr Ser Leu Asn Cys Val Ala Asp Pro Ile
197      275     280     285
198 Leu Tyr Cys Phe Val Thr Glu Thr Gly Arg Tyr Asp Met Trp Asn Ile
199      290     295     300
200 Leu Lys Phe Cys Thr Gly Arg Cys Asn Thr Ser Gln Arg Gln Arg Lys
201 305      310     315     320
202 Arg Ile Leu Ser Val Ser Thr Lys Asp Thr Met Glu Leu Glu Val Leu
203      325     330     335
204 Glu
208 <210> SEQ ID NO: 5
209 <211> LENGTH: 19
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Peptide used for antibody production
216 <400> SEQUENCE: 5
217 Arg Ser Asp Val Ala Lys Ala Leu His Asn Leu Leu Arg Phe Leu Ala
218 1      5      10      15
219 Ser Asp Lys

```

RAW SEQUENCE LISTING

DATE: 12/06/2006

PATENT APPLICATION: US/10/560,322

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

223 <210> SEQ ID NO: 6
224 <211> LENGTH: 20
225 <212> TYPE: PRT
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Peptide used for antibody production
231 <400> SEQUENCE: 6
232 Asp Glu Leu Phe Arg Asp Arg Tyr Asn His Thr Phe Cys Phe Glu Lys
233 1 5 10 15
234 Phe Pro Met Glu
235 20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/560,322

DATE: 12/06/2006

TIME: 09:31:04

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date